

Title (en)  
IMPROVED LEAD ACID STORAGE BATTERY AND METHOD OF BONDING BATTERY CELL TERMINAL POSTS AND BUSHINGS

Title (de)  
BLEISÄUREAKKU UND VERFAHREN ZUM VERBINDEN DER ANSCHLUSSKLEMMENBUCHSEN UND -KONTAKTE

Title (fr)  
ACCUMULATEUR AU PLOMB-ACIDE AMELIORE ET PROCEDE DE SOUDAGE DE BORNES TERMINALES ET DE TRAVERSEE ISOLEE D'UN ACCUMULATEUR

Publication  
**EP 0941554 A1 19990915 (EN)**

Application  
**EP 98938121 A 19980730**

Priority  
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• US 90346697 A 19970730

Abstract (en)  
[origin: WO9907029A1] A lead acid storage battery (10) and improved method of bonding battery cell terminal posts (22) to cover bushings (21) is disclosed. The battery cell terminal posts (22) are made of lead alloy material and the cover bushings (21) are made of solder alloy material having a significantly lower melting point than the terminal posts (22). The bushings (21) are bonded to the terminal posts (22) by heating the terminal posts (22) and bushings (21) to a temperature above the melting point of the material of the bushing (21), but below the melting point of the post (22), to effect a secure and leak proof connection without melting of the terminal posts (22) and with lesser chance for damage to the plastic cover (20). The plastic cover (20) further includes integrally formed annular mold sections (45) in the form of upstanding bosses (46) which completely surround respective bushings (21) and posts (22) to contain melted material of the bushings (21) during the heating operation and to form the terminals (22) into final shape.

IPC 1-7  
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IPC 8 full level  
**H01M 10/12** (2006.01); **H01M 50/172** (2021.01)

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